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ABSTRACT

This resource guide is a supplement, covering the years 1973-1976, to a compendium of astronomy educational materials published in 1970. The majority of the listings are books published in English that would be of use in astronomy education. Levels are classified as follows: general public, amateur astronomers, university science students, university nonscience students, and advanced material for research or graduate study. (MH)

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TEACHING OF ASTRONOMY

A S T R O N O M Y E D U C A T I O N A L M A T E R I A L S

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Part A: Material in English

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This is a further addition to the list of astronomy educational materials, brought out by IAU Commission 46 in 1970 and updated for the first time in 1973. As in 1973, the non-English languages are being prepared separately.

The material here is not classified according to type, as most of the new material is in the form of books. The level is indicated as follows:

GP - for the general public
GT - for amateurs and others having a special interest in astronomy
UG - for university students not specializing in science
US - for university students specializing in science
A - advanced material at the graduate or research level

An effort has been made to have the information as accurate as possible; however, the level of the material sometimes had to be estimated on the basis of little evidence, and prices are, of course, subject to considerable change. I believe that a rough estimate on these matters is better than no information at all, but I apologize for any inconveniences caused by errors. There are undoubtedly some important omissions from this list, but the lack of help in collecting the data has made this inevitable.

Funds for the preparation and distribution of this list were provided by Steward Observatory.

T. L. Swihart
Feb. 12, 1976

GP Astronomy, popular journal, AstroMedia Corp.,757 N. Broadway, Suite 204, Milwaukee, Wis., USA. $12 in US per year, $15 in Canada-Mexico, $18 other foreign.

GP Baum, R. The Planets, Halsted, 1973, 200p, $8.95.

GP Beer, A. & Beer, P. eds. Kepler, volume 18 of Vistas in Astronomy, Pergamon, 1975, 1072p, $150.

GP Beer, A. & Strand, K. A. eds. Copernicus, volume 17 of Vistas in Astronomy, Pergamon, 1975, 262p, $50.

GP Bracewell, R.N. The Galactic Club, Freeman, 1975, 141p, $6.95 cloth, $3.95 paper.

GP Gingerich, O. ed. New Frontiers in Astronomy, Freeman, 1975, 369p, $13 cloth, $7.50 paper.

GP Gingerich, O. ed. The Nature of Scientific Discovery, Smithsonian Inst., 1975, 616p, $15.

GP Hey, J.S. The Evolution of Radio Astronomy, Watson, 1973, 224p, $10 cloth, $3.95 paper.

GP Hoyle, F. Highlights in Astronomy, Freeman, 1975, 179p, $10 cloth, $5.50 paper.

GP-A Kopal, Z. & Carder, R.W. Mapping of the Moon, Reidel, 1974, 250p, $26 cloth, $12.50 paper.

GP-A Large Space Telescope, Am. Inst. Aeronaut. & Astronaut., 1290 Av. of the Americas, New York, N.Y. 10019, USA, $26.

GP Lovell, B. Man's Relation to the Universe, Freeman, 1975, 118p, $5.95.

GP-A Massey, H. & McCrea, W. H. eds. The Planets Today, Royal Society, 6 Carlton House Terrace, London SW1Y 5AG, 114p, 2.75 pounds UK, 2.85 overseas.

GP Ponnamperuma, C & Cameron, A.G.W. eds. Interstellar Communication, Houghton Mifflin, 1974, 226p.

GP The Solar System, special pub. of the Sept. 1975 issue of Scientific American, Freeman, 1975.

GP Verschuur, G.L. The Invisible Universe, Springer, 1974, 173p, $5.90.

GT Jones, K.G. The Search for the Nebulae, Watson, 1975, 96p, $8.50.

GT Robinson, J.H. Astronomy Data Book, Wiley, 1972, 271p, $10.95.

UG Abbott, V.M. The Universe, Milliken, 1972, about $7.

UG Hodge, P.W. Concepts of Contemporary Astronomy, McGraw-Hill, 1974, 576p, $10.95.

UG Hoyle, F. Astronomy & Cosmology, Freeman, 1975, 711p, $15.95.

US Cook, A.H. Physics of the Earth & Planets, Halsted, 1973, 316p, $24.75.

US Field, G.B., Arp, H.C., & Bahcall, J.N. The Redshift Controversy, Benjamin, 1973, 324p, $19.50.

US Harwit, M. Astrophysical Concepts, Wiley, 1973, 561p, $14.95.

US McCall, G.J.H. Meteorites & their Origins, Halsted, 1973, 352p, $12.95.

US Neugebauer, O. History of Ancient Math. Astronomy, Springer, 1975, 1456p, $124.70.

US Nieto, M.M. The Titius-Bode Law of Planetary Distances, 1972, Pergamon, 161p, $11.

US Rose, W.K. Astrophysics, Holt, Rinehart, & Winston, 1973, 287p, $14.

A Alder, B., Fernbach, S. & Rotenberg, M. eds. Radio Astronomy, volume 14 of Methods in Computational Physics, Academic Press, 1975, 248p, $26.50.

A Barnabis, B. & Hadjidemetriou, J.D. eds. Galaxies & Rel. Astrophys., Springer, 1974, DM 126.

A Batten, A.H. Binary & Multiple Systems of Stars, Pergamon, 1973, 278p, $12.

A Brown, R.H. The Intensity Interferometer, Halsted, 1974, 184p, $18.75.

A Bray, R.J. & Loughhead, R.E. The Solar Chromosphere, Halsted, 1974, 384p, $33.75.

A Cameron, A.G.W. ed. Cosmochemistry, Reidel, 1973, 173p, $19.

A Carleton, N.P. Astrophysics - Part A: Optical & Infrared, volume 12A of Methods of Experimental Physics, Academic Press, 1974, 608p, $43.50.

A Carson, T.R. & Roberts, M.J. eds. Atoms & Molecules in Astrophys. Academic Press, 1972, 370p, $23.50.

A Chincarini, G.L., Griboval, P.J., & Smith, H.J. eds. Electrography and Astronom. Applications, U. of Texas Press, 1974, 364p, $5.50.

A Cosmovici, C.B. ed. Supernovae & Supernova Remnants, Reidel, 1974, 387p, $37.

A Eichhorn, H. Astronomy of Star Positions, Ungar, 1974, 357p, $25.

A Field, G.B. & Cameron, A.G.W. eds. The Dusty Universe, Watson, 1975, 333p, $15.

A Gabriel, A.H. ed. UV & X Ray Spect. in Ast. & Lab. Plasmas, special issue of Space Science Reviews, vol. 14, Nos. 4-6, 1973, 403p, Dfl 120.

A Gehrels, T. ed. Planets, Stars & Nebulae Studied with Photopolarimetry, U. of Arizona Press, 1974, 1133p, $27.50.

A Giacconi, R. & Gursky, H. eds. X-Ray Astronomy, Reidel, 1974, 452p, cloth $50, paper $24.50.

A Gibson, E.G. The Quiet Sun, NASA SP-303, U.S. Govt. Print. Office, 1973, 330p, $6.20.

A Gordon, M.A. & Snyder, L.E. eds. Molecules in the Galactic Environment, Wiley, 1973, 475p, about $25.

A Griem, H.R. Spectral Line Broadening by Plasmas, Academic, 1974, 422p, $31.50.

A Gursky, H. & Ruffini, R. eds. Neutron Stars, Black Holes, & Binary X-Ray Sources, Reidel, 1975, 441p, $54.

A Hemenway, C.L., Millman, P.M. & Cook, A.F. eds. Evolutionary & Physical Problems of Meteoroids, NASA SP-319, 1973.

A Kennedy, P.M. & Buscombe,W. Catalogue of 18,000 Spectral Classifications (1963-1973), order from Prof. Buscombe, Ast. Dept., Northwestern U., Evanston, Ill. 60201, $10.

A Larmore, L. & Crawford, D. Instrumentation in Astronomy 2, SPIE, P.O. Box 1146, Palos Verdes Estates, Calif. 90274, 252p, $30 US & Canada, $31 overseas.

A Larmore, L. & Poindexter, R.W. eds. Instrumentation in Astronomy 1, address as above, 304p, $21 US & Canada, $25 overseas.

A Lecar, M. ed. Gravitational N-Body Problem, Reidel, 1972, 441p, $37.38.

A Mavridis, L.N. ed. Stars & the Milky Way System, Springer, 1974, DM138.

A McNally, D. Positional Astronomy, Halsted, 1975, 375p, $15.95.

A Nagy, B. Carbonaceous Meteorites, Elsevier, 1975, 746p, $80.95.

A Osterbrock, D. Astroph. of Gaseous Neb., Freeman, 1974, 251p, $17.

A Palluconi, F.D. & Pettengill, G.H. eds. The Rings of Saturn, NASA SP-343, US Govt. Print. Off., Wash. D.C. 20402, 1974, 222p, $3.25.

A Sakurai, K. Physics of Solar Cosmic Rays, U of Tokyo Press, 1974, 458p, $39.50.

A Sandage, A., Sandage, M. & Kristian, J. eds. Galaxies & the Universe, U of Chicago Press, 1975, 768p, $36.

A Sparks, W.M. & Fischel, D. Partition Fncts. & Eqns. of State in Plasmas, NASA SP-3066, Nat. Tech. Info. Serv., Springfield, Va. 22151, U.S.A., 1971, 613p, $9.

A Stecker, F.W. & Trombka, J.I. eds. Gamma-Ray Astrophys., NASA SP-339, Govt. Print. Off., Wash. D.C., 20402, 1973, 413p, $2.90.

A Tandberg-Hanssen, E. Solar Prominences, Reidel, 1974, 155p, $19.50 cloth, $12.50 paper.

A Verschuur, G.L. & Kellerman, K.I. eds. Galactic & Extra Galactic Radio Astronomy, Springer, 1974, 402p, $37.80.

A Xanthakis, J. ed. Solar Activity & Related Interplan. & Terr. Phen., Springer, 1974, DM 94.

The following books, all at the advanced category, are proceedings of IAU symposia and have been published by Reidel. IAU members are allowed a discount from the quoted prices. In most cases two prices are given, the larger being cloth binding and the smaller paper.

Sym. No. 48, P. Melchior & S. Yumi, eds. Rotation of the Earth, 244p, $19.

Sym. No. 49, M.K.V. Bappu & J. Sahade, eds. Wolf-Rayet & High Temperature Stars, 263p, $30.50, $22.50.

Sym. No. 50, C. Fehrenbach & B.E. Westerlund, eds. Sp. Class. & Multicolor Phot., 314p, $35.50, $26.

Sym. No. 51, A.H. Battan, ed. Ext. Atm. & Circumstell. Matter in Sp. Binary Systems, 291p, $34, $24.50.

Sym. No. 52, J.M. Greenberg & H.C. van de Hulst, eds. Interstel. Dust, 584p, $56, $40.50.

Sym. No. 53, C.J. Hansen ed. Phys. of Dense Matter, 327p, $36.50, $30.

Sym. No. 54, B. Hauk & B.E. Westerlund eds. Calibration of Abs. Mag. & Temp., 300p, $42.50, $31.50.

Sym. No. 55, H. Bradt & R. Giacconi eds. X- and Gamma-Ray Ast., 323p, $30.50, $22.

Sym. No. 56, R.G. Athay ed. Chromospheric Fine Structure, 310p, $38, $29.

Sym. No. 57, G. Newkirk ed. Coronal Disturbances, 508p, $57, $45.

Sym. No. 58, J.R. Shakeshaft ed. Formation & Dynamics of Galaxies, 441p, $54, $39.50.

Sym. No. 59, P. Ledoux, A. Noels & A.W.Rodgers eds. Stellar Instability & Evolution, 201p, $27,$19.50.

Sym. No. 60, F.J. Kerr & S.C. Simonson III, eds. Galactic Radio Astronomy, 654p, $78, $60.

Sym. No. 61, W. Gliese, A.A. Murray & R.H. Tucker eds. New Probs. in Astrometry, 335p, $30, $22.50.

Sym. No. 62, Y. Kozai, Stability of Solar System, 313p, $38, $28.

Sym. No. 63, M.S. Longair, Cosmological Theories & Obs. Data, 381p, $39.50, $34.

Sym. No. 64, C. DeWitt-Morette ed. Grav. Radiation & Collapse, 224p, $28, $20.

Sym. No. 65, A. Woszczyk & C. Iwaniszewska, eds. Explor. of Planetary System, 566p, $67, $39.50.

Sym. No. 66, R.J. Tayler ed. Late Steps of Stellar Evolution, 269p, $32, $24.

Sym. No. 67, V.E. Sherwood & L. Plaut eds. Var. Stars & Stellar Evolution, 614p, $84.

Sym. No. 68, S.R. Kane ed. Solar Gamma, X, and EUV Radiation, 439p, $58.

Sym. No. 69, A. Hayli ed. Dynamics of Stellar Systems, 461p, $58.